






Dr. S. Srivignesh, PhD, N-PDF (Israel)

Assistant Professor

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RESEARCH INTEREST

Keen interest on the molecular mechanisms, which drive the acquisition of abscission competence and its regulation in horticultural and agricultural crops by employing novel approaches viz., transcriptome sequencing, proteomics, stable gene transformation, VIGS, RNAi silencing, and bioinformatics to improve the production and post harvest quality.

Area of specialization: Molecular breeding of vegetables, Nano-technological interventions, Transgenics and Plant genomics.

EDUCATIONAL QUALIFICATIONS

Institute/University	Degree/ Profession	Year(s)	Field of study
Tamil Nadu Agricultural University, India	B.Sc. (Horticulture)	2002-2006	Horticulture
Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, Israel	M.Sc. (Agricluture)	2006-2010	Vegetable Science, Molecular biology
Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, Israel	Ph.D. (Agriculture)	2010-2016	Vegetable Science, Molecular biology
Department of Nano Science and Technology, Tamil Nadu Agricultural University, India	N-PDF	2018-2019	Nano Technology

 <https://scholar.google.co.in/citations?user=3Q2TDRgAAAAJ&hl=en>

 <https://orcid.org/0000-0002-7309-3995>

ACADEMIC | RESEARCH POSITIONS

2019 - Till	Assistant Professor, Department of Horticulture, CUTN, Thiruvavur
2018-2019	National Post Doctoral Fellow, Funded by DST – SERB, GoI.
2017-2018	Teaching Assistant in the Department of Nano Science and Tech., TNAU, CBE

RESEARCH EXPERIENCE

Master's and Doctoral Research: Regulation of flower abscission in tomato (*Solanum lycopersicum*) plants: functional and transcriptome analyses.

My master's and doctoral research have significantly contributed towards better understanding in the sphere such as mapping of abscission pathway in tomato, creation of customized microarray for abscission research, alkalization of cells associated with abscission and development of new transgenic lines with less abscission. The outcome of my work has huge implications in agriculture. Pedicel abscission is a critical trait directly affecting crop yields. We had developed transgenic lines by antisense silencing of TPRP and KD genes that exhibited abscission reduction by 70-80%. Further, the complete transcriptome analysis and mapping of genes in the abscission pathway in tomato plants from my research would help breeders in worldwide, to modulate the abscission process in other crops by including or avoiding abscission response genes during the breeding program based on their selection strategy and target trait. Besides, we developed a customized Microarray chip (AMADID: 043310) comprising dual probes for validated transcripts designed to mine the naturally occurring antisense transcripts (NATs) is more robust than any other commercially available platforms.

Post doctoral Research: Multilayered Nano encapsulation matrix

Developed a multi-layered electrospun nano fiber encapsulated with 1-MCP and Hexanal (volatile compounds) to extend the shelf-life of banana. Through the project, we developed an electrospun fiber (Nano stickers), which can be simply stick on the cartoons/ pouches of banana bags where it slowly release the ripening inhibitor molecules that will bind on to the fruit receptor and eventually delay the ripening process and in turn extends the shelf life of banana fruits by 14 days. This significant shelf life extension can result in huge savings for the farmer and traders by delaying the market clutch of low price during peak season thereby enhancing the availability of fruits in the region vis-à-vis nutritional security of the country.

HONORS & AWARDS

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| 2006-2009 | Recipient of Pear alumni and the Hebrew University of Jerusalem - administered partial scholarship |
| 2007-2010 | Recipient of <i>M.Sc. Research Scholar</i> fellowship by Hebrew University of Jerusalem, Israel. |
| 2011-2012 | Recipient of ISRAEL-ASIA LEADERS fellowship award |
| 2011-2014 | Recipient of the <i>ICAR International Fellowship (ICAR-IF)</i> award for PhD |
| 2010-2016 | Recipient of <i>Ph.D. Research Scholar fellowship</i> by Hebrew University of Jerusalem, Israel |
| 2014 | Recipient of International Horticultural Congress convener's scholarship by International Horticulture Congress, Secretariat, Brisbane, Australia |

- 2014 Recipient of *The Hebrew university travel award* for the best PhD research scholars HUJI, Israel.
- 2014 Recipient of Mahatma Gandhi gold medal award, Global economic progress and research association (GEPRA), India
- 2015 Recipient of Universal achievers gold medal award, Universal Achievers foundation (UAF), India.
- 2017 Recipient of Prof. M.S.Swaminathan *Best Young Scientist Award*, 2017. Bose science society, TNSRO, Pudukkottai, India.
- 2017 Recipient of *Best oral presentation* award at third national Agricultural Scientific Tamil Conference, Coimbatore organized by Agricultural Scientific Tamil Society (SciTSA), New Delhi
- 2017 Recipient of *Best poster presentation* award at National seminar on Nano technology for evergreen revolution, Coimbatore organized by Department of Nano Science and Technology, TNAU, Coimbatore
- 2017 Second poster presentation award at International conference on Biosciences & Bioinformatics, organized by Bharathiar University, Coimbatore.
- 2017 Recipient of *Best oral presentation award* at “National conference on New Vistas in Vegetable Research towards Nutritional Security under changing climate scenario” organized by HC&RI, TNAU, Coimbatore.
- 2018 Recipient of Jagar Nath Raina Memorial- *All India Best Publication Award* by SADHNA- Dr YS Parmer University of Horticulture and Forestry, HP, India.
- 2019 Recipient of Prof. T.S. Sadasivan Memorial *NABS- Best Research Paper Award* by National Academy of Biological Sciences, Chennai.

RESEARCH GRANTS | PROJECTS

Research Title: Multilayered encapsulation of 1- MCP and Hexanal as a smart delivery system to enhance the shelf life of Banana. **Role:** Principal Investigator. **Source of funding:** Department of Science and Technology, Science & Engineering Research Board - (DST-SERB), GoI. **Field of research:** Nanotechnology in horticulture **Budget:** INR 19.2 Lakhs

RESEARCH PUBLICATIONS

1. Meir, S., Philosoph-Hadas, S., **Sundaresan, S.**, Selvaraj, *et al.* (2010). Microarray analysis of the abscission-related transcriptome in the tomato flower abscission zone in response to auxin depletion. *Plant Physiol.* 154: 1929-1956. (Impact factor: 5.94)
2. Meir, S., Philosoph-Hadas, S., **Sundaresan, S.**, Selvaraj, *et al.* (2011). Identification of defense-related genes newly-associated with tomato flower abscission. *Plant Signal. Behav.* 6: 590-593. (Impact factor: 1.39)
3. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., Belausov, E., *et al.* (2014). A new aspect of flower abscission: involvement of a specific alkalization of the cytosol in the abscission zone cells. *J. Exp. Bot.* 66, 1355–1368. doi: 10.1093/jxb/eru483. (Impact factor: 5.35).

4. Meir, S., **Sundaresan, S.**, Riov, J., Agarwal, I., and Philosoph-Hadas, S. (2015). Role of auxin depletion in abscission control. *Stewart Posthar. Rev.* 11,1–15. doi: 10.2212/spr.2015.2.2.
5. Kim, J., **Sundaresan, S.**, Philosoph-Hadas, S., Yang, R., Meir, S., and Tucker, M.L. (2015). Examination of the abscission-associated transcriptomes for soybean, tomato and Arabidopsis highlights the conserved biosynthesis of an extensible extracellular matrix and boundary layer. *Frontiers Plant Sci.* 6. doi: 10.3389/fpls.2015.01109. (Impact factor: 4.29)
6. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2016). *De novo* transcriptome sequencing and development of abscission zone-specific microarray as a new molecular tool for analysis of tomato organ abscission. *Frontiers Plant Sci.* 6. doi: 10.3389/fpls.2015.01258. (Impact factor: 4.29)
7. **Sundaresan, S.**, Meir, S., Philosoph-Hadas, S., *et al.* (2018). The Tomato Hybrid Proline-Rich Protein regulates the abscission zone competence to respond to ethylene signals. *Horticultural Research* 5:28, 1-17. <https://doi.org/10.1038/s41438-018-0033-2>. (Impact factor: 4.43)
8. P. Sumitha, K. Sukumar, **S. Srivignesh** (2018). Sequencing and phylogenetic analysis of *vlhA* gene from *Mycoplasma synoviae* field isolates associated with Eggshell apex abnormality. *Indian J. Anim. Res.*, B-3342, 1-4. DOI: 10.18805/ijar.B-3442. (Impact factor: 0.20)
9. V. Kanmani, I. Muthuvel, **S. Srivignesh**, K.S. Subramanian., *et al.* (2018). Post-harvest dip of enhanced freshness formulation to extend the shelf life of banana (*Musa acuminata* cv. Grand Naine) in India. *Tropical Agriculture* 95:1, 1-13. (Impact factor: 0.15)
10. D. Durgadevi, **S. Srivignesh** and A. Sankaralingam (2018). Effect of Consortia Bioformulation of Rhizobacteria on Induction of Systemic Resistance in Tuberose Against Peduncle Blight Disease. *International Journal of Bio-resource and Stress Management*, Vol 4, 510 – 517, DOI: [HTTPS://DOI.ORG/10.23910/IJBSM/2018.9.4.1850b](https://doi.org/10.23910/IJBSM/2018.9.4.1850b). (NAAS- 4.65)
11. M. Surendhiran, K. Raja, R. Jerlin, S. Marimuthu and **S. Srivignesh** (2019). Nano emulsion seed invigouration for improved germination and seedling vigour in maize. *International Journal of Agricultural Science and Research*, 9, no. 3, 333-340. (NAAS- 4.13)
12. I. Arumuka Pravin, **S. Srivignesh**, D. Dhakshinamoorthy, K. S. Subramanian and A. S. Krishnamoorthy (2019). Respodip treatment with nano emulsion of hexanal to reduce the anthracnose disease of banana and extend its shelf-life. *Journal of soils & crops*: 29 (1); 32-37. (NAAS- 4.46)

ABSTRACTS & POSTERS

International Conferences and Symposia

1. Meir, S., **Sundaresan, S.**, Riov, J., Salim, S., and Philosoph-Hadas, S. (2018). Regulation of vesicle trafficking in the tomato flower abscission zone during the phases of execution and formation of a defense layer. Abstracted and poster presentation in the International Plant Molecular Biology-IPMB congress Consortium, **France**.
2. Tucker, M.L., Ronghui, Y., Joonyup, K., Zhong, C.J., Philosoph-Hadas, S., **Sundaresan, S.**, and Meir, S (2018). A study of the role of IDA-like gene expression in soybean and tomato abscission – IDA is expressed in abscission but may not be essential. Abstract and oral in the XI International Symposium on the plant Hormone Ethylene, Center of Mediterranean Agronomic Institute of Chania, Crete, **Greece**, p. 93-94.
3. **Srivignesh, S.**, Durgadevi, D., Janavi, G.J., and Subramanian, K, S (2017). Metagenomic profiling of Hexanal treated mango fruits towards food safety. Abstracted and poster presentation in the International Conference on Recent Advances in Food processing Technology- iCRAFPT18, IIFT. **Thanjavur**.
4. **Srivignesh, S.**, Durgadevi, D., Arumuka Pravin, I., Philosoph-Hadas, S., and Meir, S (2017). Antisense microarrays and Natural antisense transcripts. Abstract and Poster in the International conference on Biosciences & Bioinformatics. Bharathiar University, **Coimbatore**, p.165-166.
5. Durgadevi, D., **Srivignesh, S.**, Arumuka Pravin, I., Harish, S., and Alice, D (2017). Exploitation of ACC Deaminase synthesizing plant growth promoting bacteria, a useful trait to endophytic colonization of roots of rice under biotic and abiotic stress. Abstract and Oral in the International conference on Biosciences & Bioinformatics. Bharathiar University, **Coimbatore**, p. 31-32.
6. Meir, S., Salim, S., **Sundaresan, S.**, Abebie, B., Chernov, Z., Glick, A., and Philosoph-Hadas, S (2016). Regulation of senescence and abscission in ornamentals by plant hormones: Horticulture use and mode of action. Abstract and key note speak in the III International Symposium on Horticulture in Europe. Chania, **Greece**. p.44.
7. **Sundaresan, S.**, Philosoph-Hadas, S., Ma, C., Riov, J., *et al.* (2016). THyPRP and KD1 regulate flower abscission by affecting the extracellular vesicle cargo of cell wall degradation enzymes. Flash talk, Abstract and Poster presentation in the Extracellular vesicles: friends and foes. Conference. Weizmann Institute of Sciences, Rehovot, **Israel**.
8. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2015). Transcriptome profiling of ethylene-related molecular changes occurring in the tomato flower and leaf abscission zones in response to auxin depletion. Abstract and lecture in the 10th International Conference on the Plant Hormone Ethylene, Chongqing, **China**, Session 10-3, P.52
9. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2015). Auxin related changes during tomato organ abscission driven by auxin depletion. Abstract and Poster in the 2nd Pears Foundation Alumni Symposium in Plant Sciences, Rehovot, **Israel**. P.40
10. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, *et al.* (2015). Abscission of flowers and floral organ is closely associated with alkalization of the cytosol in the abscission zone cells. Abstract and Poster in the Ezra Galun Memorial Symposium- Israeli society of plant sciences (ISPS), Rehovot, **Israel**. P.75
11. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2014). Transcriptome analysis of the tomato flower and leaf abscission zones, using a customized abscission zone microarray. Abstract and lecture in the 29th International Horticultural Congress (IHC), Brisbane, **Australia**, SYM9.

12. Meir, S., **Sundaresan, S.**, Ma, C., Philosoph-Hadas, S., *et al.* (2014). New insights and approaches for elucidating regulation of organ abscission. Abstract and lecture in the 29th International Horticultural Congress (IHC), Brisbane, **Australia**, Abstract SYM9.
13. Lers, A., Bar-Dror, T., Dermastia, M., Kladnik, A., **Sundaresan, S.**, Meir, S., *et al.* (2014). Asymmetry between the distal and proximal sides of the abscission zone: characterization, functional significance and the involvement of programmed cell death. Abstract and lecture in the 29th International Horticultural Congress (IHC), Brisbane, **Australia**, Abstract SYM9.
14. **Sundaresan, S.**, Philosoph-Hadas, S., Riov, J., *et al.* (2014). Abscission regulatory networks: a transcriptomic analysis using NGS and a novel tomato flower and leaf abscission zone customized microarray. Abstract and poster in the 7th Congress of the Federation of the Israel Societies of Experimental Biology (FISEB, ILANIT), Eilat, **Israel**, Abstract PB-71, p. 36.
15. **Sundaresan, S.**, Philosoph-Hadas, S., Kochanek, B., *et al.* (2013). Ethylene-enhanced flower abscission is associated with specific increased pH of the cytosol in abscission zone cells of Arabidopsis, wild rocket and tomato flowers. Abstract and lecture in the 21st Conference of the International Plant Growth Substances Association (IPGSA), Shanghai, **China**, Abstract C-16, p. 177.
16. **Sundaresan, S.**, Philosoph-Hadas, S., Kochanek, B., *et al.* (2012). Ethylene-enhanced flower abscission is associated with specific increased pH of the cytosol in abscission zone cells of Arabidopsis, wild rocket and tomato plants. Abstract and lecture in The IX International Conference on the Plant Hormone Ethylene, Rotorua, **New Zealand**, p. 89.
17. **Sundaresan, S.**, Philosoph-Hadas, S., Lers, A., *et al.* (2011). Flower and leaf abscission: Molecular analysis of the regulation of the interaction between auxin and ethylene. Abstract and poster in The 6TH Congress of the Federation of the Israel Societies for Experimental Biology (ILANIT), Eilat, **Israel**, p. 54.
18. Jiang, C-Z., Meir, S., Lers, A., Philosoph-Hadas, S., *et al.* (2010). Molecular analysis of the interaction of auxin and ethylene during flower abscission. Abstract and poster in the 28th International Horticultural Congress, Lisbon, **Portugal**. Abstract S04.054, p. 244.
19. **Sundaresan, S.**, Lers, A., Philosoph-Hadas, S., *et al.* (2010). Regulation of the interaction between auxin and ethylene during flower and leaf abscission: A molecular study. Abstract and poster in The 20th International Conference on Plant Growth Substances (IPGSA), Tarragona, **Spain**. Abstract PS13-04, p. 97.
20. Meir, S., Lers, A., Philosoph-Hadas, S., Burd, S., **Sundaresan, S.**, Selvaraj, V.K.S., *et al.* (2010). Molecular analysis of changes in the flower and leaf abscission zone transcriptome role of auxin depletion. The XVIII Congress of the Federation of European Societies of Plant Biology (FESPB), Valencia, **Spain**. Abstract P10-023, p. 142.
21. Meir, S., Jiang, C-Z., Lers, A., Philosoph-Hadas, S., Burd, S., **Sundaresan, S.**, Selvaraj, V.K.S., *et al.* (2009). Molecular analysis of the interaction of ethylene and auxin during flower abscission. **Abstract and lecture** in the 8th International Symposium on the Plant Hormone Ethylene. Cornell University, NY, **USA**.
22. Meir, S., Jiang, C-Z., Lers, A., Philosoph-Hadas, S., Burd, S., **Sundaresan, S.**, Selvaraj, V.K.S., *et al.* (2009). Molecular and functional analyses of changes in the pedicel abscission zone transcriptome following auxin depletion. Abstract and poster in the International Symposium on Auxins and Cytokinins in Plant Development (ACPD), Prague, **Czech Republic**. Abstract O6-6, p. 92.

National Conferences and Symposia

1. **Srivignesh, S.**, Durgadevi, D., Janavi, G.J., and Subramaniyan K.S. (2018). Metagenomic profiling of hexanal treated mango fruits towards food safety. Abstract and Poster in the International Conference on Recent Advances in Food Processing Technology (iCRAFPT'18), Indian Institute of Food Processing Technology, Thanjavur.
2. Arumuka Pravin, I., Durgadevi, D., **Srivignesh, S.**, Subramaniyan K.S., and Krishnamoorthy A.S. (2018). Dip Treatment with Nano Emulsion Hexanal Reduces the Post- Harvest Disease and Extends the Shelf life of Mango var. Alphonso. Abstract in the Challenges and Advances in Microbiology (CAM-2018), Department of Microbiology, Annamalai University, Annamalai nagar. Abstract CAM-99, p. 77.
3. Durgadevi, D., **Srivignesh, S.**, Arumuka Pravin, I., Subramaniyan K.S., and Janavi, G.J (2018). Biosafety of hexanal as nanoemulsion on fungal bio control agents. Abstract in the Challenges and Advances in Microbiology (CAM-2018), Department of Microbiology, Annamalai University, Annamalai nagar. Abstract CAM-105, p. 81.
4. **Srivignesh, S.**, Durgadevi, D., Arumuka Pravin, I., Janavi, G.J., and Subramaniyan K.S. (2018). Metagenomic profiling of Nano emulsion treated mango fruits using Nano pore sequencer. Abstract in the Challenges and Advances in Microbiology (CAM-2018), Department of Microbiology, Annamalai University, Annamalai nagar. Abstract CAM-167, p. 109.
5. **Srivignesh, S.**, Durgadevi, D., Arumuka Pravin, I., Philosoph-Hadas, S., and Meir, S (2017). Polygalacturonase genes in tomato flower and leaf abscission- a novel trait for molecular breeding. Abstract and Oral in the National conference on New Vistas in Vegetable Research towards Nutritional Security under changing climate scenario (NCVR-2017), Department of vegetable crops, TNAU, Coimbatore. Abstract TIV-OP-3, p. 50.
6. Durgadevi, D., Harish, S., **Srivignesh, S.**, and Arumugam, T (2017). Impact of planting dates on population dynamics and seasonal incidence of foliar diseases on onion (*Allium cepa* var *aggregatum*). Abstract and Oral in the National conference on New Vistas in Vegetable Research towards Nutritional Security under changing climate scenario (NCVR-2017), Department of vegetable crops, TNAU, Coimbatore. Abstract TIV-OP-9, p. 130.
7. **Srivignesh, S.**, Durgadevi, D., Arumuka Pravin, I., Janavi, G.J., and Subramaniyan K.S. (2017). Metagenomic profiling of Enhanced Freshness Formulation (EFF) Treated Fruits of mango var. Alphonso. Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract BIO 1, p. 127-128.
8. Sangeetha, V., Ponni, P., **Srivignesh, S.**, Subramaniyan, K.S., and Janavi, G.J (2017). Enhanced Freshness Formulation (EFF) Dip technology to extend the Shelf-life of mango. Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract PH 8, p. 102-103.
9. Durgadevi, D., Arumuka Pravin, I., **Srivignesh, S.**, Subramaniyan K.S., Janavi, G.J., Paliyath, G., and Subramaniyan, J., (2017). Hexanal Vapour to Reduce Major Post-harvest Pathogens of Banana (*Musa* sp.). Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract PRO 3, p. 194-195.

10. Arumuka Pravin, I, Durgadevi, D., **Srivignesh, S.**, Subramaniyan K.S., and Krishnamoorthy A.S. (2017). Hexanal Vapour Treatment for the Reduction of Post-harvest Diseases of Mango. Abstract and Poster in the National seminar on Nano technology for evergreen revolution, Department of Nano Science and Technology, TNAU, Coimbatore. Abstract PRO 5, p. 198-199.
11. **Srivignesh, S.**, Durgadevi, D., Arumuka Pravin, I, Philosoph-Hadas, S., and Meir, S (2017). Potential role of auxin and ethylene in tomato flower and leaf abscission. Oral in the Third National Agri-Scientific Tamil Research conference, TNAU, Coimbatore, p. 21-27.

BOOKS

1. **Sundaresan, S.** Tomato Leaf and Flower Abscission: Study of the regulation of genes associated with flower and leaf abscission in tomato (*Solanum lycopersicum*). 2013 LAP LAMBERT Academic Publishing, ISBN-10: 3659390801, ISBN-13: 978-3659390807.
2. Yasin, J.K., **Sundaresan, S.**, Pratima P.T., Nanjundan, J., and Pillai M.A., (2013). Merging Plant Breeding with Crop Biotechnology. New India Publishing Agency, ISBN-10: 9381450595, ISBN-13: 978-9381450598.
3. **S. Srivignesh**, P. Rajesh Kumar, I.Arumuka Pravin, and V.Ramamoorthi. Nutritional Disorders in Agricultural and Horticultural Crops, 2019. Sree Kumaran Publishers, Coimbatore, Pages 217 (ISBN- 978-9388570022).

BOOK CHAPTERS

1. **S. Srivignesh**. Biotechnology and Genetic Engineering in General Agriculture Q & A (Thannambikkai Publications, Coimbatore, 2017), (ISBN: 9789387314245), p. 215-232.
2. I. Arumuka Pravin, D. Durgadevi, **S. Srivignesh.**, S. Nakkeeran, A.S.Krishna moorthy Enterprising Mushroom Biotechnology (Tamil Nadu Agricultural Univ, and UGC-SAP-DRS1, Coimbatore, 2017), (ISBN: 9789384909109), p. 186-196.
3. **S. Srivignesh**, D. Durgadevi, I. Arumuka Pravin in Vegetable production (Laser Publishing House, Coimbatore, 2017), (ISBN: 9789387314030), p. 21-27.
4. I. Arumuka Pravin, D. Durgadevi, **S. Srivignesh**, D. John christopher in Pathology (Laser Publishing House, Coimbatore, 2017), (ISBN: 9789387314078), p. 20-22.
5. D. Durgadevi, A.Sanakara lingam **S. Srivignesh** in Pathology (Laser Publishing House, Coimbatore, 2017), (ISBN: 9789387314078), p. 64-67.
6. N. Natarajan, **S. Srivignesh** and K. Raja. Nano invigouration techniques to improve shelf life of seeds. In New Vistas in Seed Production, Processing, Seed Enhancement and Marketing. 2018. TNAU offset press, Coimbatore
7. I. Arumuka Pravin, D. Durgadevi, **S. Srivignesh** and John Christopher. Integrated disease management in Groundnut against late leaf spot and rust diseases. In Fungal Pathogens of Crop Plants and Their Management, 2017. A.E. Publications, Coimbatore (ISBN- 9381972974).

8. **Sundaresan, S.**, and Yasin, J.K.. Role of Genetic Engineering and Biotechnology in Crop Improvement in Merging Plant Breeding with Crop Biotechnology. (New India Publishing Agency, 2012) ISBN-10: 9381450595, ISBN-13: 978-9381450598.

POPULAR ARTICLES

1. in Magazines – 26 (languages- English and Tamil)
2. in Newspapers – 1

TRAINING PROGRAMMES

1. Participated in the hands-on training on “Nanopore Sequencing” organized by Genotypic technology PVT Ltd. Bangalore, India on 5th to 10th May 2017.
2. Participated in the hands-on training on “Next Generation Sequencing” organized by Genotypic technology PVT Ltd. Bangalore, India on 19th to 23rd December 2016.
3. Participated in the hands-on training on “Microarray service” organized by Genotypic technology PVT Ltd. Bangalore, India on 10th to 12th February 2016.
4. Participated in the hands-on training on “AmpSeq Rapid Exome Capture using Ion proton” organized by Genotypic technology PVT Ltd. Bangalore, India on 12th to 15th September 2014.
5. Participated in the training on “Tea Production and Processing” organized by KVK, UPASI, Conoor, Nilgiris on 16th February to 2nd March 2005.
6. Participated in the training on “Coffee Production and Processing” organized by HRS, TNAU, Thadiyankudisai on 7th to 21st October 2004.

WORKSHOPS

1. Attended the workshop on “Application of Proteomics-Current status and Future prospects” organized by Department of Biotechnology, AC&RI, Madurai on 29th August 2017.
2. Attended the International workshop on “Advanced Functional Nano materials- 4th Edition” organized by Center for Nano Science and Technology, Anna University, Chennai on 22nd to 24th March 2017.
3. Attended the International workshop on “ARO 90” organized by Agricultural Research Organization, Bet Dagan, Israel on 2nd to 4th December 2012.
4. Attended the Pears Foundation Alumni workshop in Plant Sciences organized by The Robert H. Smith Faculty of Agriculture, Food and Environment, Rehovot, Israel on 6th to 12th September 2009.
5. Attended the workshop on “Organic Vegetable Production” organized by Department of vegetable crops, HC&RI, Coimbatore on 8th December 2017.
6. Attended the workshop on “Grafting Techniques in Vegetable Crops” organized by Department of vegetable crops, HC&RI, Coimbatore on 8th December 2017.
7. Attended the workshop on “Real-time PCR Analysis” organized by Department of vegetable crops, HC&RI, Coimbatore on 7th December 2017.

8. Attended the workshop on “Vertical Gardening in Vegetable crops” organized by Department of vegetable crops, HC&RI, Coimbatore on 7th December 2017.

EXTENSION ACTIVITIES

1. Resource person for demonstration on “Spray technology for fruit preservation” at Village Knowledge and Resource center, HC&RI, Periyakulam, organized by MYRADA, Erode on 10.08.2017.
2. Resource person for demonstration on “Dip technology for fruit preservation” at Chinnamanur, Theni, organized by MYRADA, Erode on 22.09.2017.
3. Served as organizing committee member and conducted demos in the “Banana festival - 2017” at Madurai, organized by AC&RI Madurai and Govt of Tamil Nadu, TNAU on 21st to 23rd July 2017.
4. Served as organizing committee member and conducted demos in the “One-day workshop on Pack-house technology” at Krishnagiri, organized by TNAU and IDRC Canada, on 12.03.2018.
5. Served as organizing committee member in the “Final dissemination workshop” at TNAU, organized by TNAU and IDRC Canada, on 15.03.2018.
6. Served as organizing committee member in the “Nano Stake holder meet-2019” at TNAU, organized by Department of Nano Science and Technology, TNAU, Coimbatore on 13.08.2019.

INVITED LECTURES

1. Invited lecture at 5th Annual Agricultural graduate students Conference (AAGSC) organized by Directorate of Students welfare, TNAU, Coimbatore on 4th & 5th of May 2017.
2. Invited lecture at Indo-Israel cross cluster seminar on agricultural structure organized by The Department of Horticulture and plantation crops, Govt. of Tamil Nadu & Embassy of Israel, New Delhi on 28th and 29th of Nov 2017.
3. Invited lecture at National symposium on “Horticulture in the Vanguard of Climate change and Urban Environment organized by Department of Horticulture, Annamalai University, Chidambaram on 7th and 8th of Feb 2019.
4. Invited lecture at National Seminar on Current Trends and Challenges in Sustainable Agriculture organized by Faculty Centre for Agricultural Education and Research, Ramakrishna Mission Vivekananda Educational and Research Institute, Coimbatore on 21st and 22nd of Feb 2019.

SCIENTIFIC AND PROFESSIONAL SOCIETY MEMBERSHIPS

1. Life member in Horticultural Society of India (**HSI**), India
2. Life member in Indian Society of Vegetable Science (**ISVS**), India
3. Life member Indian Society for Plant Physiology (**ISPP**), India
4. Life member in National Academy of Biological Science (**NABS**), India
5. Life member in Agricultural Scientific Tamil Society (**SciTSA**), India

6. Life member in Bose Science Society, TNSRO, India
7. Member in the International Society for Horticultural Science (**ISHS**), Leuven, Belgium (2014-2017)
8. Member in the American Society of Plant Biologists (**ASPB**), USA(2014-2015)
9. Life member in current horticulture, Society for Horticultural and Development, India
10. Life member in the Society for Advancement of Human and Nature (**SADHNA**), Dr YS Parmar University of Horticulture and Forestry, India

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7. Reviewer for Current Agriculture Research Journal, India.
8. Reviewer in the International Journal of Horticulture (IJH) (Biopublisher), Canada
9. Reviewer in Agricultural Research & Technology (ARTOAJ) (Juniper publisher), USA

Dr. Srivignesh Sundaresan
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"Agriculturists are the linchpin of mankind since they support all others who cannot till the soil" - Thirukkural (1032) - Thiruvalluvar